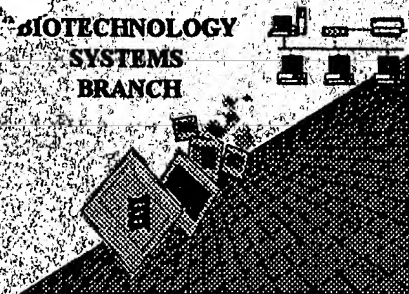


h/a

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number

09/346,470

Art Unit / Team No.

1643

Date Processed by STIC

9/24/99

RECEIVED
MAR 22 2000
TC 1600 MAIL ROOM

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/346,470

DATE: 09/24/1999
TIME: 14:44:50

Input Set: I346470.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Corrected Diskette Needed

1 <110> HILL, RONALD JOHNSTON
2 HANNAN, GARRY NOEL
3 <120> NOVEL GENETIC SEQUENCES ENCODING STEROID AND JUVENILE HORMONE
4 RECEPTOR POLYPEPTIDES AND INSECTICIDAL MODALITIES THEREFOR II
5 <130> 53-99sequence listing
6 <140> US/09/346,470
7 <141> 1999-07-01
8 <150> PCT/AU/00033
9 <151> 1999-01-15
10 <150> AU PP1536
11 <151> 1998-01-15
12 <160> 20
13 <170> PatentIn Ver. 2.0

pyr 1,346
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ERRORED SEQUENCES FOLLOW

E--> 14 <210> 1
15 <211> 2274 2273 slurs (p. 3)
16 <212> DNA
17 <213> Lucilia cuprina
18 <220>
19 <221> CDS
20 <222> (1)..(2271)
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24 1 5 10 15
25 atg tta gaa gaa tcc tcc tca gaa gta acc tcc tcc tca aat ggt ctg 96
26 Met Leu Glu Glu Ser Ser Ser Glu Val Thr Ser Ser Ser Asn Gly Leu
27 20 25 30
28 gtc ttg tca tcg gat ata aat atg tca cct tcc tcg ttg gat tca ccc 144
29 Val Leu Ser Ser Asp Ile Asn Met Ser Pro Ser Ser Leu Asp Ser Pro
30 35 40 45
31 gtt tat ggc gat cag gaa atg tgg ctg tgt aac gat tca gct tca tat 192
32 Val Tyr Gly Asp Gln Glu Met Trp Leu Cys Asn Asp Ser Ala Ser Tyr
33 50 55 60
34 aat aac agt cat cag cat agt gtt ata act tcg ctg cag ggc tgc acc 240
35 Asn Asn Ser His Gln His Ser Val Ile Thr Ser Leu Gln Gly Cys Thr
36 65 70 75 80
37 tca tca ttg ccg gcc caa aca acc att ata cct ctg tca gct tta ccc 288
38 Ser Ser Leu Pro Ala Gln Thr Thr Ile Ile Pro Leu Ser Ala Leu Pro
39 85 90 95

PAGE: 2

RAW SEQUENCE LISTING PATENT APPLICATION US/09/346,470

DATE: 09/24/1999
TIME: 14:44:50

Input Set: I346470.RAW

40	aat tcc aat aat gcc tcc ctg aat aat caa aat caa aat tat caa aat	336
41	Asn Ser Asn Asn Ala Ser Leu Asn Asn Gln Asn Gln Asn Tyr Gln Asn	
42	100 105 110	
43	ggt aat tcc atg aat aca aat tta tcg gtt aac aca aat aac agt gtt	384
44	Gly Asn Ser Met Asn Thr Asn Leu Ser Val Asn Thr Asn Asn Ser Val	
45	115 120 125	
46	gga gga ggt gga ggt ggt ggt gta ccc ggt atg act tca ctc aat	432
47	Gly Gly Gly Gly Gly Gly Gly Gly Val Pro Gly Met Thr Ser Leu Asn	
48	130 135 140	
49	ggt ctg ggt ggt ggt ggt ggc agt caa gtg aat aat cac aat cac agc	480
50	Gly Leu Gly Gly Gly Gly Gly Gly Ser Gln Val Asn Asn His Asn His Ser	
51	145 150 155 160	
52	cac aat cat tta cac cac aac agc aac agt aat cac agt aat agc agt	528
53	His Asn His Leu His His Asn Ser Asn Ser Asn His Ser Asn Ser Ser	
54	165 170 175	
55	tcc cac cac aca aat ggc cac atg ggt att ggc ggc ggt ggt ggt ggc	576
56	Ser His His Thr Asn Gly His Met Gly Ile Gly Gly Gly Gly Gly Gly	
57	180 185 190	
58	tta tcg gtc aat att aat ggt ccc aat atc gtt agc aat gcc caa cag	624
59	Leu Ser Val Asn Ile Asn Gly Pro Asn Ile Val Ser Asn Ala Gln Gln	
60	195 200 205	
61	tta aac tcg tta cag gcc tca caa aat ggc caa gtt att cat gcc aat	672
62	Leu Asn Ser Leu Gln Ala Ser Gln Asn Gly Gln Val Ile His Ala Asn	
63	210 215 220	
64	att ggc att cac agt atc atc agt aat gga tta aat cat cat cac cat	720
65	Ile Gly Ile His Ser Ile Ile Ser Asn Gly Leu Asn His His His His	
66	225 230 235 240	
67	cat cat atg aat aac agt agt atg atg cat cat aca ccc aga tct gaa	768
68	His His Met Asn Asn Ser Ser Met Met His His Thr Pro Arg Ser Glu	
69	245 250 255	
70	tca gct aat tcc ata tca tca ggt cgt gat gat ctt tca ccc tcg agc	816
71	Ser Ala Asn Ser Ile Ser Ser Gly Arg Asp Asp Leu Ser Pro Ser Ser	
72	260 265 270	
73	agt ctt aat ggc ttc tca aca agc gat gct agt gat gtt aag aaa atc	864
74	Ser Leu Asn Gly Phe Ser Thr Ser Asp Ala Ser Asp Val Lys Lys Ile	
75	275 280 285	
76	aaa aaa ggt cct gcg ccc cgt tta caa gag gaa ctg tgt ctg gtg tgt	912
77	Lys Lys Gly Pro Ala Pro Arg Leu Gln Glu Glu Leu Cys Leu Val Cys	
78	290 295 300	
79	ggt gat cgg gcg tcc ggt tat cat tat aac gca ctc acc tgt gaa ggc	960
80	Gly Asp Arg Ala Ser Gly Tyr His Tyr Asn Ala Leu Thr Cys Glu Gly	
81	305 310 315 320	
82	tgt aag ggg ttc ttt cga cgg agt gtt acc aaa aat gcg gtg tat tgt	1008
83	Cys Lys Gly Phe Phe Arg Arg Ser Val Thr Lys Asn Ala Val Tyr Cys	
84	325 330 335	
85	tgt aaa ttt ggt cat gcc tgc gaa atg gac atg tat atg cga cgt aaa	1056
86	Cys Lys Phe Gly His Ala Cys Glu Met Asp Met Tyr Met Arg Arg Lys	
87	340 345 350	
88	tgt cag gaa tgt agg ctg aaa aaa tgt ttg gct gtg ggc atg cgg ccg	1104
89	Cys Gln Glu Cys Arg Leu Lys Lys Cys Leu Ala Val Gly Met Arg Pro	

PAGE: 3

RAW SEQUENCE LISTING PATENT APPLICATION US/09/346,470

DATE: 09/24/1999
TIME: 14:44:50

Input Set: I346470.RAW

90		355		360		365			
91		gaa tgt gtg gtg ccc gaa aac cag tgt gca atg aaa cga cgc gaa aag	1152						
92		Glu Cys Val Val Pro Glu Asn Gln Cys Ala Met Lys Arg Arg Glu Lys							
93		370		375		380			
94		aaa gca caa aaa gag aag gat aaa ata cag acc agt gtg tgt gca acg	1200						
95		Lys Ala Gln Lys Glu Lys Asp Lys Ile Gln Thr Ser Val Cys Ala Thr							
96		385		390		395		400	
97		gaa att aaa aag gaa ata ctc gat tta atg aca tgt gaa ccg cca tca	1248						
98		Glu Ile Lys Lys Glu Ile Leu Asp Leu Met Thr Cys Glu Pro Pro Ser							
99			405		410		415		
100		cat cca acg tgt ccg ctg tta cct gaa gac att ttg gct aaa tgt caa	1296						
101		His Pro Thr Cys Pro Leu Leu Pro Glu Asp Ile Leu Ala Lys Cys Gln							
102			420		425		430		
103		gct cgt aat ata cct cct tta tcg tac aat caa ttg gca gtt ata tat	1344						
104		Ala Arg Asn Ile Pro Pro Leu Ser Tyr Asn Gln Leu Ala Val Ile Tyr							
105			435		440		445		
106		aaa tta ata tgg tat caa gat ggc tac gaa cag cca tcc gag gaa gat	1392						
107		Lys Leu Ile Trp Tyr Gln Asp Gly Tyr Glu Gln Pro Ser Glu Glu Asp							
108			450		455		460		
109		ctc aaa cgt ata atg agt tca ccc gat gaa aat gaa agt caa cac gat	1440						
110		Leu Lys Arg Ile Met Ser Ser Pro Asp Glu Asn Glu Ser Gln His Asp							
111			465		470		475		480
112		gca tca ttt cgt cat ata aca gaa atc act ata cta aca gta caa tta	1488						
113		Ala Ser Phe Arg His Ile Thr Glu Ile Thr Ile Leu Thr Val Gln Leu							
114			485		490		495		
115		att gtg gaa ttt gcc aag ggt ttg cca gcg ttt acc aaa ata cca caa	1536						
116		Ile Val Glu Phe Ala Lys Gly Leu Pro Ala Phe Thr Lys Ile Pro Gln							
117			500		505		510		
118		gag gat caa ata aca cta tta aag gcc tgc tca tca gaa gtt atg atg	1584						
119		Glu Asp Gln Ile Thr Leu Leu Lys Ala Cys Ser Ser Glu Val Met Met							
120			515		520		525		
121		ttg cga atg gca cga cgt tac gat cac aat tca gat tcg ata ttc ttt	1632						
122		Leu Arg Met Ala Arg Arg Tyr Asp His Asn Ser Asp Ser Ile Phe Phe							
123			530		535		540		
E--> 124		cc aat aat cga tcg tat acg cgt gac tct tap aaa atg gct ggc atg	1680						1679
125		Ala Asn Asn Arg Ser Tyr Thr Arg Asp Ser Tyr Lys Met Ala Gly Met							
126			545		550		555		560
127		gct gat aat att gag gat ctg ctg cat ttc tgt cga caa atg tac tcg	1728						numbers off
128		Ala Asp Asn Ile Glu Asp Leu Leu His Phe Cys Arg Gln Met Tyr Ser							
129			565		570		575		
130		atg aaa gtg gac aat gtc gaa tat gct cta ctc act gcc att gtg atc	1776						
131		Met Lys Val Asp Asn Val Glu Tyr Ala Leu Leu Thr Ala Ile Val Ile							
132			580		585		590		
133		ttt tcc gat cgg ccg ggt ctc gaa gaa gcc gaa cta gtc gaa gcg ata	1824						
134		Phe Ser Asp Arg Pro Gly Leu Glu Glu Ala Glu Leu Val Glu Ala Ile							
135			595		600		605		
136		caa agt tac tac atc gat aca ctc cgc att tac ata ctt aat cgc cat	1872						
137		Gln Ser Tyr Tyr Ile Asp Thr Leu Arg Ile Tyr Ile Leu Asn Arg His							
138			610		615		620		
139		tgc ggc gat ccc atg agt ctc gta ttc ttt gcc aag ctt ctg tca att	1920						

PAGE: 4

RAW SEQUENCE LISTING PATENT APPLICATION US/09/346,470

DATE: 09/24/1999
TIME: 14:44:50

Input Set: I346470.RAW

140 Cys Gly Asp Pro Met Ser Leu Val Phe Phe Ala Lys Leu Leu Ser Ile
141 625 630 635 640
142 cta acc gaa ctg cgt acg ttg ggc aat caa aat gcc gaa atg tgt ttc 1968
143 Leu Thr Glu Leu Arg Thr Leu Gly Asn Gln Asn Ala Glu Met Cys Phe
144 645 650 655
145 tcg ttg aaa ttg aaa aat cgc aaa ctg cca aaa ttc ctc gaa gag atc 2016
146 Ser Leu Lys Leu Lys Asn Arg Lys Leu Pro Lys Phe Leu Glu Glu Ile
147 660 665 670
148 tgg gat gta cat gcc att cca ccc tca gtg cag tca cac ata cag gct 2064
149 Trp Asp Val His Ala Ile Pro Pro Ser Val Gln Ser His Ile Gln Ala
150 675 680 685
151 acc cag gcg gaa aag gcc gcc cag gaa gct cag gca aca aca tcg gcc 2112
152 Thr Gln Ala Glu Lys Ala Ala Gln Glu Ala Gln Ala Thr Thr Ser Ala
153 690 695 700
154 att tca gca gcc gcc acc tca tct tcc tcc ata aat acc tcg atg gca 2160
155 Ile Ser Ala Ala Ala Thr Ser Ser Ser Ser Ile Asn Thr Ser Met Ala
156 705 710 715 720
157 aca tca tcc tca tca tcg tta tcg cca tcg gcg gcc tca aca ccc aat 2208
158 Thr Ser Ser Ser Ser Ser Leu Ser Pro Ser Ala Ala Ser Thr Pro Asn
159 725 730 735
160 ggt ggt gcc gtc gat tat gtt ggc acc gat atg agt atg agt tta gta 2256
161 Gly Gly Ala Val Asp Tyr Val Gly Thr Asp Met Ser Met Ser Leu Val
162 740 745 750
163 caa tcg gat aat gca tag 2274
164 Gln Ser Asp Asn Ala
165 755

number
off
↓

166 <210> 3
167 <211> 1401
168 <212> DNA
169 <213> Lucillia cuprina
170 <220>
171 <221> CDS
172 <222> (1) .. (1401)
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175 Met Asp Asn Gly Glu Gln Asp Ala Gly Phe Arg Leu Ala Pro Met Ser
176 1 5 10 15
177 ccg cag gag ata aag cca gac att tca cta ctc aat gaa aat aat acg 96
178 Pro Gln Glu Ile Lys Pro Asp Ile Ser Leu Leu Asn Glu Asn Asn Thr
179 20 25 30
180 agt agt tat tcg ccc aaa cct gga agt cct aat cca ttt gcc atc gga 144
181 Ser Ser Tyr Ser Pro Lys Pro Gly Ser Pro Asn Pro Phe Ala Ile Gly
182 35 40 45
183 ttg cag gca ata aat gca gtc gct gcc gcg aat gcc aat aac caa aat 192
184 Leu Gln Ala Ile Asn Ala Val Ala Ala Asn Ala Asn Asn Gln Asn
185 50 55 60
186 caa atg ttg caa act acg cca cca cag cag cag tat cca cca aat 240
187 Gln Met Leu Gln Thr Thr Pro Pro Gln Gln Gln Tyr Pro Pro Asn
188 65 70 75 80

PAGE: 5

RAW SEQUENCE LISTING PATENT APPLICATION US/09/346,470

DATE: 09/24/1999
TIME: 14:44:50

Input Set: I346470.RAW

189	cac ccc ctt agt ggt tgc aaa cac ttg tgt tcc att tgt gga gac cgc	288
190	His Pro Leu Ser Gly Ser Lys His Leu Cys Ser Ile Cys Gly Asp Arg	
191	85 90 95	
192	gcc agt gga aaa cat tat ggg gtc tac agt tgt gag ggt tgt aaa ggg	336
193	Ala Ser Gly Lys His Tyr Gly Val Tyr Ser Cys Glu Gly Cys Lys Gly	
194	100 105 110	
195	ttc ttc aaa cgt acc gta cgc aag gac ttg aca tat gct tgt cgt gag	384
196	Phe Phe Lys Arg Thr Val Arg Lys Asp Leu Thr Tyr Ala Cys Arg Glu	
197	115 120 125	
198	gac aga aat tgc att ata gat aaa cga caa aga aat cgt tgc cag tat	432
199	Asp Arg Asn Cys Ile Ile Asp Lys Arg Gln Arg Asn Arg Cys Gln Tyr	
200	130 135 140	
201	tgt cgt tat caa aag tgt tta gct tgt ggc atg aaa cgc gaa gcg gtc	480
202	Cys Arg Tyr Gln Lys Cys Leu Ala Cys Gly Met Lys Arg Glu Ala Val	
203	145 150 155 160	
204	caa gag gaa cga caa cgt ggt act cgt gct gct aac gct aga gct gct	528
205	Gln Glu Glu Arg Gln Arg Gly Thr Arg Ala Ala Asn Ala Arg Ala Ala	
206	165 170 175	
207	ggt gct ggc ggt ggt gga gga ggt ggt ggt ggg gta agc aat gtg gtt	576
208	Gly Ala Gly Gly Gly Gly Gly Gly Gly Gly Gly Val Ser Asn Val Val	
209	180 185 190	
210	ggt gct ggc gga gaa gac ttt aaa ccc agc agt tca tta cgt gat ctc	624
211	Gly Ala Gly Gly Glu Asp Phe Lys Pro Ser Ser Ser Leu Arg Asp Leu	
212	195 200 205	
213	act ata gaa cgc atc att gaa gcc gag caa aag gct gaa tct ttg agc	672
214	Thr Ile Glu Arg Ile Ile Glu Ala Glu Gln Lys Ala Glu Ser Leu Ser	
215	210 215 220	
216	ggt gat aac gtg ttg ccc ttt ttg cgc gtt ggc aac aat tcc atg gta	720
217	Gly Asp Asn Val Leu Pro Phe Leu Arg Val Gly Asn Asn Ser Met Val	
218	225 230 235 240	
219	caa cac gac tac aaa ggc gcg gta tct cat ctc tgc cag atg gtt aac	768
220	Gln His Asp Tyr Lys Gly Ala Val Ser His Leu Cys Gln Met Val Asn	
221	245 250 255	
222	aaa caa ctc tac caa atg gtt gaa tat gca cgt cga aca cca cat ttt	816
223	Lys Gln Leu Tyr Gln Met Val Glu Tyr Ala Arg Arg Thr Pro His Phe	
224	260 265 270	
225	aca cat ttg cag cgt gag gat cag ata cta ttg tta aag gct ggc tgg	864
226	Thr His Leu Gln Arg Glu Asp Gln Ile Leu Leu Leu Lys Ala Gly Trp	
227	275 280 285	
228	aat gaa ctg cta att gca aat gtt gcc tgg tgc agt att gag tct ctg	912
229	Asn Glu Leu Leu Ile Ala Asn Val Ala Trp Cys Ser Ile Glu Ser Leu	
230	290 295 300	
231	gat gcc gaa tat gcc tct cct ggt acg gta cat gac ggt tct ttt ggt	960
232	Asp Ala Glu Tyr Ala Ser Pro Gly Thr Val His Asp Gly Ser Phe Gly	
233	305 310 315 320	
234	cgg cgt tca cca gtg cgt cag ccc caa caa ctc ttc ctt aat cag aat	1008
235	Arg Arg Ser Pro Val Arg Gln Pro Gln Gln Leu Phe Leu Asn Gln Asn	
236	325 330 335	
237	ttc tgc tat cat cgc aat agt gct att aag gcc aat gtt gtt tca att	1056
238	Phe Ser Tyr His Arg Asn Ser Ala Ile Lys Ala Asn Val Val Ser Ile	

PAGE: 6

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/346,470

 DATE: 09/24/1999
 TIME: 14:44:50

Input Set: I346470.RAW

239		340		345		350		
240	ttc gat cgt atc ctc tcg gag ttg agc atc aaa atg aaa cgt ctt aac							1104
241	Phe Asp Arg Ile Leu Ser Glu Leu Ser Ile Lys Met Lys Arg Leu Asn							
242		355		360		365		
243	atc gat cgc tcg gag ttg tcg tgt ctg aag gca atc ata ctc ttc aat							1152
244	Ile Asp Arg Ser Glu Leu Ser Cys Leu Lys Ala Ile Ile Leu Phe Asn							
245		370		375		380		
246	cca gac ata cgc ggt ctg aaa tgt cga gcc gac gtc gag gta tgt cgt							1200
247	Pro Asp Ile Arg Gly Leu Lys Cys Arg Ala Asp Val Glu Val Cys Arg							
248		385		390		395		400
249	gaa aaa atc tat gcc tgt ctg gac gaa cac tgc cgc aca gaa cat cca							1248
250	Glu Lys Ile Tyr Ala Cys Leu Asp Glu His Cys Arg Thr Glu His Pro							
251			405		410		415	
252	ggt gat gat ggc cgc ttt gct cag cta cta cta agg ttg ccc gca ttg							1296
253	Gly Asp Asp Gly Arg Phe Ala Gln Leu Leu Leu Arg Leu Pro Ala Leu							
254			420		425		430	
255	cgt tcc atc agt ctc aaa tgt ctc gat cat ttg ttt ttc ttc cgt tta							1344
256	Arg Ser Ile Ser Leu Lys Cys Leu Asp His Leu Phe Phe Phe Arg Leu							
257			435		440		445	
258	ata ggc gaa aga gca ttg gag gaa tta att gct gag caa ttg gaa gct							1392
259	Ile Gly Glu Arg Ala Leu Glu Glu Leu Ile Ala Glu Gln Leu Glu Ala							
260		450		455		460		
261	cct atc tgc							1401
262	Pro Ile Cys							
263	465							

Please review the
 Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
 <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I346470.RAW

Line	? Error/Warning	Original Text
15	E Input 2274, Calc# Bases 2273 differ	<211> 2274
124	E Number of Bases conflict w/ Running Total	cc aat aat cga tcg tat acg cgt gac tct ta
173	E Sequence IDs 1 and 3 differ	<400> 1